

Getting to Grips with Measurement Uncertainty

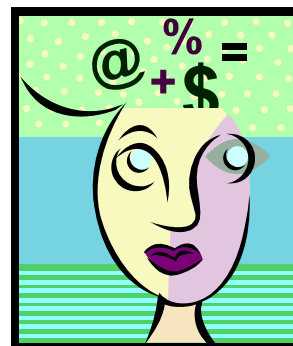
SAVANT TECHNOLOGIES

WORKSHOP ON UNCERTAINTY FOR CHEMICAL TEST METHODS

ISO/IEC 17025:2005 requires the use of procedures for estimating the measurement uncertainty of test results to evaluate the performance of test methods and assess their suitability to meet client requirements. Increasingly requirements for uncertainty in test results are becoming part of testing standards and customer requirements

This one day workshop is designed for practitioners in chemical testing methods. It looks at the requirements of the standard and at the guidance available for chemical methods. Some examples are looked at in depth with an emphasis on basing estimates on data from method validation, using estimates of reproducibility and bias. The arithmetic of uncertainty calculations will be explained.

There is opportunity for delegates to discuss their own examples.



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WORKSHOP CONTENTS

Definitions and Requirements

- ◇ Definition of measurement uncertainty and Requirements of ISO/IEC 17025:2005
- ◇ Essential statistical techniques and arithmetic
- ◇ Converting and harmonising values

Guidance for Estimating Uncertainty

- ◇ Primary Guidance Documents
- ◇ Other Guidance for Chemical Methods

Approaches to Quantifying Uncertainty

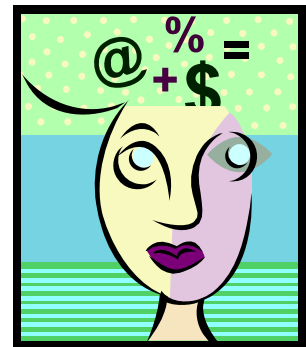
- ◇ Identifying and assessing the contribution of individual uncertainty components
- ◇ Using data from collaborative method development and validation studies
- ◇ Assessing Uncertainty for Qualitative Methods

The Common Sense Check

- ◇ Using professional judgement to assess statistical values

Chemistry Examples

- ◇ Quantitative and qualitative techniques



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